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**Declaration under Rule 4.17:**

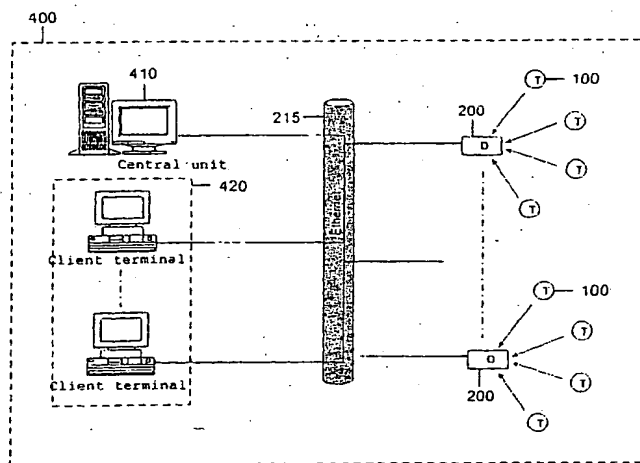
— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **A SYSTEM AND METHOD FOR POSITION DETERMINATION OF OBJECTS**



(57) Abstract: A method and a system (400) for detection and position determination of chips (100), which transmit ultrasound signals in a room. The system (400) comprises electronic identification chips (100), which are attached to objects that have to be monitored. Each chip (100) is equipped with a transmitter (170) and a receiver (180). The signals are received by a plurality of detector units (290), which are connected to a detector base unit (200) that registers and interprets the signals transmitted from the identification chips (100). Detector base units (200) located in different rooms are interconnected in a network (215) and transmit processed information to one or more central units (410) for further interpretation and sorting. The special feature of the invention is that line interference is substantially removed, and it is possible to determine position even though the identification chips are in motion.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 03/00106

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G01S 5/30, G01S 15/74, G01S 15/87  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPOINTERNAL, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4860266 A (D.DREFAHL), 22 August 1989 (22.08.89), column 2, line 16 - line 62, abstract --	4
Y	US 6141293 A (AMORAI-MORIYA ET AL), 31 October 2000 (31.10.00), column 2, line 46 - column 7, line 11 --	4
A	--	1-3,5-13
Y	US 4459853 A (H.MIWA ET AL), 17 July 1984 (17.07.84), abstract --	4

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

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 "E" earlier application or patent but published on or after the international filing date  
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 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6317386 B1 (A.WARD), 13 November 2001 (13.11.01), abstract --	1-13
A	WO 9928762 A1 (OLIVETTI RESEARCH LTD.), 10 June 1999 (10.06.99), abstract --	1-13
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International application No.

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